

**I CLAIM:**

1. A pen comprising: /  
a housing including a front opening formed therein, and  
an ink reservoir including:
  - 5           a cartridge received in said housing, and provided for receiving ink therein,  
            a barrel attaching to front of said cartridge, and  
            a nib attached to said barrel, for extending out through said front opening of said housing.
- 10       2. The pen as claimed in claim 1, wherein said barrel includes a peripheral swelling extended radially and outwardly therefrom, and having an outer diameter equals to an inner diameter of said cartridge, to allow said peripheral swelling of said barrel to be engaged into said cartridge.
- 15       3. The pen as claimed in claim 2, wherein said barrel includes a peripheral rib extended radially and outwardly from said peripheral swelling, to engage with said cartridge, and to limit an engagement of said barrel relative to said cartridge, and to prevent said barrel from being over engaged into said cartridge.
- 20       4. The pen as claimed in claim 2, wherein said barrel includes at least one sealing ring provided thereon and engaged between said peripheral swelling of said barrel and said cartridge, to prevent ink from flowing out through a gap defined between said peripheral swelling of said barrel and said cartridge.
- 25       5. The pen as claimed in claim 1 further comprising a spring member engaged between said housing and said barrel, to apply a spring biasing force against said barrel of said ink reservoir.

6. The pen as claimed in claim 5, wherein said barrel includes a peripheral rib extended radially and outwardly therefrom, to engage with said spring member.

7. The pen as claimed in claim 1, wherein said barrel includes a  
5 tube extended therefrom and having an inner diameter arranged to receive said nib therein.

8. The pen as claimed in claim 7, wherein said tube includes an outer diameter smaller than that of said barrel, to form a peripheral shoulder between said tube and said barrel.

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